



LOUISIANA NATURAL AND SCENIC RIVERS SYSTEM

PERMIT APPLICATIONPermit # 945 (Assigned by Department)

The Louisiana Department of Wildlife and Fisheries' Scenic Rivers program is authorized by LRS title 56, Chapter 9 Part II. This law requires permits authorizing activities in or affecting rivers that have been designated by the Louisiana Legislature as Natural and Scenic. Information provided on this form will be used in evaluating the application for a permit. Information in this application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary, however, the data requested are necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

APPLICANT INFORMATION

Name of Applicant XTO Energy, Inc.	Name of Agent (if any) W. Wayne Kilpatrick
Address P. O. Box 748	Address 760 Highway 521
Address	Address
City, State, Zip Cotton Valley, Louisiana 71018	City, State, Zip Haynesville, LA 71038
Phone 318-832-4215	Phone 318-624-2465

DESCRIPTION OF THE PROPOSED ACTIVITY

Brief summary of the description and purpose of the proposed activity (details to be attached as a separate document)
Need to replace a segment of a late 1950's pipeline beneath Dorcheat Bayou. A horizontal directional drill 10 feet below channel of Dorcheat Bayou is proposed to replace the specified segment
Is any portion of the activity complete? YES or <u>(NO)</u> (If yes, indicate month and year of completion)

LOCATION OF PROPOSED ACTIVITY

Stream Name	Dorcheat Bayou	Names, Addresses, Phone Numbers of Adjacent Property Owners
Parish	Webster	Lane Merritt, 8300 Highway 160, Cotton Valley, LA 71018
Section	36	Dorcheat Land & Timber, 11288 Hwy. 371, Sibley, LA 71073 - 318-382-1202
Township	22N	Weyerhaeuser Corp. 1643 HWY. 80, Ada, LA - 318-377-4465
Range	10W	
Latitude/Longitude	N 32 50 57.7 W 93 21 23.0	

ENVIRONMENTAL ASSESSMENT

Must be a separate document. See the attached instruction sheet for completing the assessment.

CONFIRMATION OF INFORMATION ACCURACY

Application is hereby made for a Scenic River Permit to authorize the activities described herein. I certify that I am familiar with the information contained in this application and that, to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities, or I am acting as the duly authorized agent of the applicant.

W. Wayne Kilpatrick

Signature

8/21/2015

Date

ENVIRONMENTAL ASSESSMENT

FOR

DORCHEAT BAYOU

SCENIC STREAM PERMIT

XTO ENERGY

PROPOSED SCENIC STREAM CROSSING, SEC. 36, T22N, R10W

SEC. 36, T22N, R10W

WEBSTER PARISH, LOUISIANA

Prepared for:

XTO ENERGY

P. O. Box 748

Cotton Valley, Louisiana 71018

Prepared by:

NoLa Soil Services, Inc.

760 Highway 521

Haynesville, Louisiana 71038

Tel: (318) 624-2465

PROPOSED SCENIC STREAM CROSSING, SEC. 36, T22N, R10W
(DORCHEAT BAYOU SCENIC STREAM PERMIT)

PROJECT DESCRIPTION

The purpose of this activity is to replace a segment of an existing natural gas pipeline beneath Dorcheat Bayou, which is a part of the Louisiana Natural and Scenic River System. The proposed replacement pipeline will transport natural gas. The project will require a horizontal directional drill beneath Dorcheat Bayou Channel. All of the activity will be within the limits of an existing pipeline right-of-way. The project site is located in Section 36, T22N, R10W, Webster Parish, Louisiana. The horizontal directional drill will be 344.90 feet in length and will extend 10 to 11 feet beneath the channel of Dorcheat Bayou. The new pipe will be 4 inch Naprock .237 wall thickness. A profile of the horizontal directional drill is attached. There will be no removal of trees due to this project. The proposed pipeline right-of-way will not impact any Jurisdictional wetlands. The wetland determination is based on soil descriptions, hydrophytic vegetation count and wetland hydrology data collected along the proposed route. This documentation is available in this report for your review and consideration.



State of Louisiana

BOBBY JINDAL
GOVERNOR

DEPARTMENT OF WILDLIFE AND FISHERIES

ROBERT J. BARHAM
SECRETARY

Dear Scenic River Permit Applicant:

Please review and concur on the following statement regarding the issuance of permits by the Louisiana Department of Wildlife and Fisheries. This agreement must be signed and returned before a Scenic River Permit can be issued.

"I have been advised and do understand that by applying for and accepting a Scenic Rivers permit issued by the Louisiana Department of Wildlife and Fisheries, I am being allowed to engage in an activity which would otherwise be prohibited by law or for which a permit is required. I understand that the permit is not a license and confers no property right upon me. I specifically agree to abide by all State and Federal fish and wildlife laws and regulations, and all State and Federal laws and regulations which relate to this permit or the permitted activity, and by all other terms and conditions of this permit. I understand that the permit for which I am applying may be suspended, annulled, withdrawn or revoked and that I may be assessed civil penalties, all in accordance with the provision of the Louisiana Administrative Procedure Act, and that I may be denied future permits as a consequence of my failure to fully and completely comply with the terms and conditions of the permit, as well as other laws and regulations pertinent thereto. If served with or notified of a cease and desist order signed by the Scenic Rivers Administrator, I agree to immediately and without delay cease all activities and operations which relate to the permitted activity or which are impacting the Scenic River, until such time as the matter can be resolved in an adjudicatory hearing pursuant to the Louisiana Administrative Procedure Act. I understand and agree that any permit issued to me by the Louisiana Department of Wildlife and Fisheries is in the nature of a privilege which is being voluntarily extended to me by the Department and the failure on my part to cooperate with the Department can result in the loss of the privilege conferred and the denial of future requests for permits. By accepting this permit, I evidence my agreement to be bound by all conditions and stipulations set forth herein."

A handwritten signature in black ink, appearing to read "Barham", written over a horizontal line.

Authorized Signature

8-21-15

Date

REV. 12/7/98

PROPOSED SCENIC STREAM CROSSING, SEC. 36, T22N, R10W
(DORCHEAT BAYOU SCENIC STREAM PERMIT)

ENVIRONMENTAL ASSESSMENT AND EVALUATION OF IMPACTS

Listed below are the environmental assessments and impacts on each of the listed items:

Existing Land Use:

Land use is forested bottomland hardwood. Property owners at and adjacent to the project site are Lane Merritt, Dorcheat Land & Timber, and Weyerhaeuser. These bottomland hardwood tracts are managed for timber production and recreational uses for hunting and fishing. There will be no adverse impacts on present land use by this proposed pipeline.

Historical/Archeological Sites:

The entire proposed alignment route has been traversed by foot. There is no visible evidence of any historical/archeological sites along this project site or adjacent to the proposed route. A data search by Louisiana State Historical and Cultural Resource Division requested. No known archeological sites or historic properties will be affected by this undertaking (See attached letter.). The agency will be provided a map showing the proposed route and site location. If any historical or cultural resources are encountered the Cultural Resource Division will be notified immediately and construction will cease and await further instructions. At present, no adverse impacts are expected on historical and archeological sites.

Economic Impact:

The economic impact for the area would be a benefit by creating employment opportunities for the local work force. The transport of the natural gas will help develop the potential of natural gas reserves in the area. The project would help the local, state and national economy by supplying a much needed natural resource. There will be no adverse impacts on the economy.

Wilderness/Rural Quality:

There will be no adverse impacts on wilderness/rural quality. The proposed pipeline route is designed to eliminate any negative impact on Dorcheat Bayou. There will be no removal of trees anywhere along this proposed project.

Scenic/Aesthetic Value:

The project will not have a negative impact on the scenic and aesthetic value. The area is now bottomland hardwoods and the projected land use will remain the same. There will be no removal of trees by this proposed project.

All activities will be within the limits of an existing pipeline right-of-way which was installed in the 1950's.

Recreational Use/Opportunities:

The project will not affect any recreational uses or opportunities that normally occur along Scenic Streams.

Ecological Systems Present:

There will be no change in present ecological systems. Management of the land will continue under the same system. There should be no alteration of the surface conditions.

Fish And Wildlife In The Area:

The project will have a minimum effect on fish and wildlife since the proposed activity will be in an existing right-of-way along the natural levee of Dorcheat Bayou. There will be no runoff into Dorcheat Bayou because the slope grades away from the high bank.

Botanical Elements (Vegetation):

The present vegetation adjacent to the project site is mostly mixed bottomland hardwoods. The project site is within an existing pipeline right-of-way which is herbaceous emergent vegetation.

Geological Features:

The geological features at the site is the alluvial plain and channel of Dorcheat Bayou. The Jurisdictional Area under the "Scenic Stream Act" is on the high bank and the natural levee of Dorcheat Bayou.

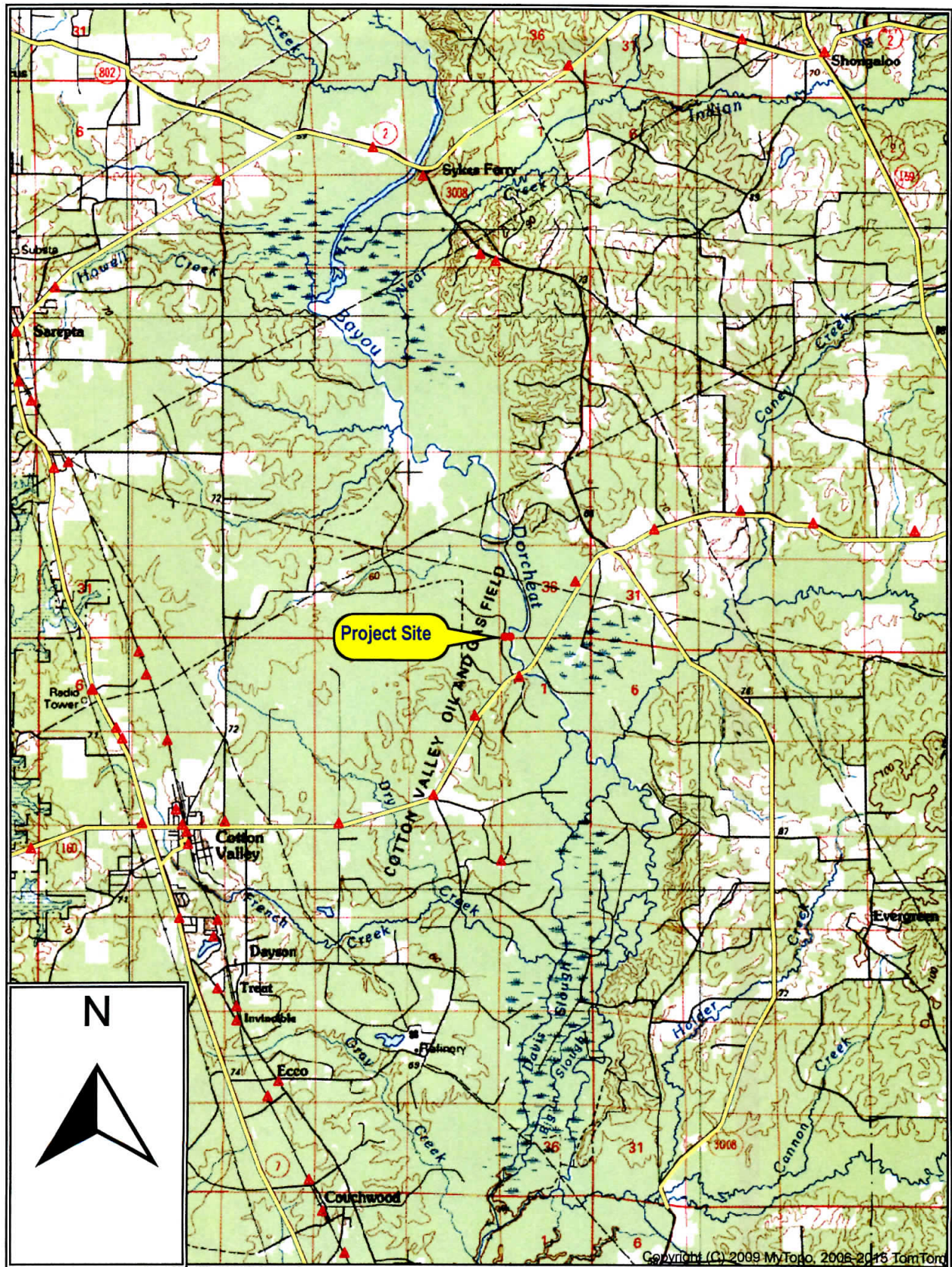
Hydrological Features:

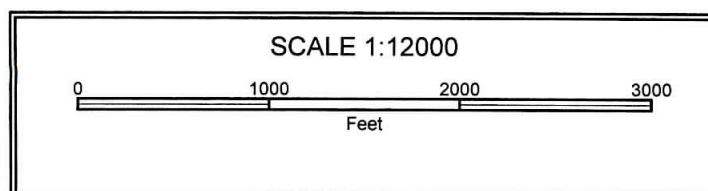
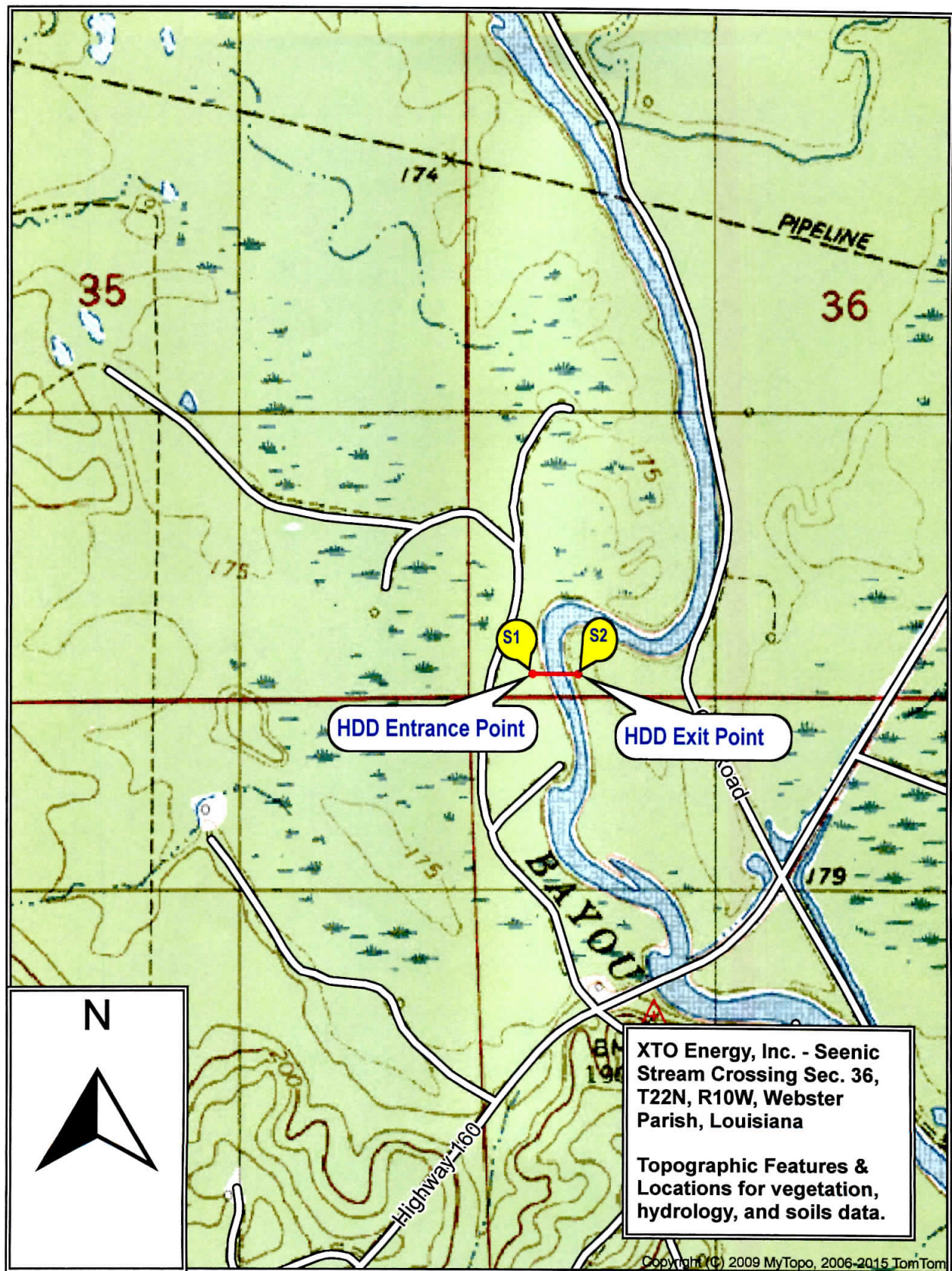
The entrance and exit points on the horizontal directional drill are within an existing pipeline right-of-way. This pipeline was installed in the late 1950's. The soils at the bore entrance are identified as Iuka fine sandy loam and are moderately well drained. They are classified as Aquic Udifluvents. The seasonal high water table is from 1 to 3 feet December through April. The exit site is on a stream terrace and the well drained soils are identified as Ouachita silt loam. These soils are classified as Fluventic Dystrocrepts. The seasonal water table in these soils are at depths greater than 6 feet below the soil surface. The proposed horizontal directional drill entrance point and exit point are subject to occasional flooding for very brief periods after extended rainfall.

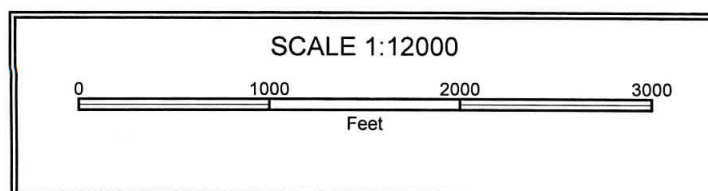
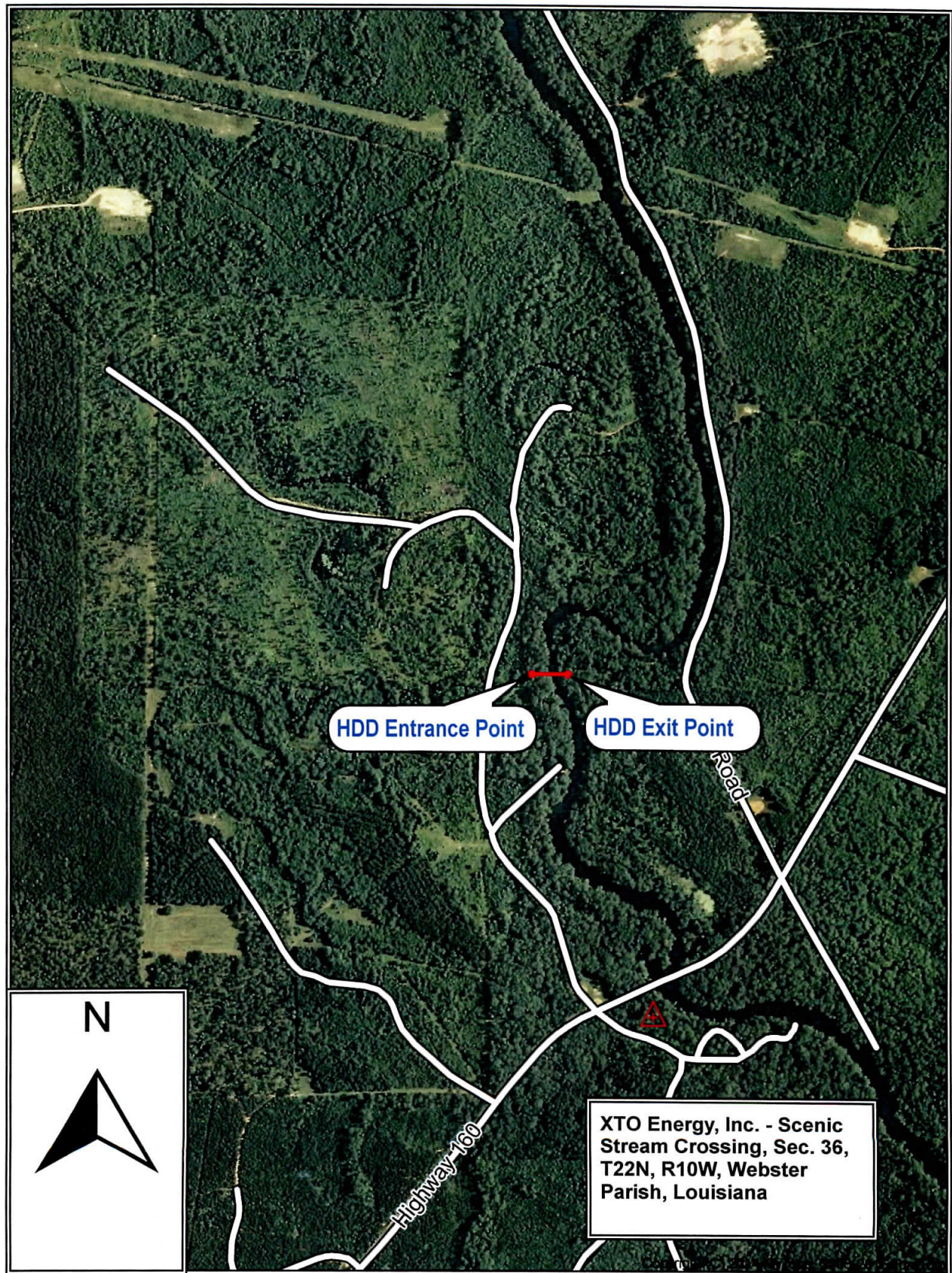
Alternate routes were considered but were found to be less desirable. The selected route will not impact any Jurisdictional areas.

It is my opinion that no adverse impacts are expected with the planning and the construction methods that will be used to accomplish this proposed project. There will be no impact of wetlands or "Waters of the U.S.". See attached data sheets on vegetation, hydrology and soils descriptions.

XTO Energy has not been cited for violations of the "Scenic Stream Act". Erosion controls such as water barriers, silt fences and hay bales will be used where needed. The erosion control structures will be monitored every 14 days; or prior and after predicted rainfall events greater than 0.5 inches. These steps will be taken in the development of the project to minimize and /or offset potential impacts to Dorcheat Bayou.







R-10-W DORCHESTER BAYOU NORTH VIEW

Restrictions on Use/Dissemination
For value received, Landpoint has prepared a Survey Plat for XTO Energy. These documents have been prepared for the exclusive use of XTO Energy according to the terms and conditions of a mutual agreement. Use or reliance on the Survey Plat by any party other than XTO Energy and its legal representative is forbidden without permission in writing from the President of Landpoint.

ELEVATIONS ARE BASED ON GPS OBSERVATION NAVD 88 DATUM

THIS PLAT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR ABSTRACT OF TITLE. THERE MAY BE ADDITIONAL EASEMENTS THAT ARE NOT SHOWN HEREON

www.landpoint.net (800) 348-5254



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DATE: 8/5/15

NUMBER: 15-0781

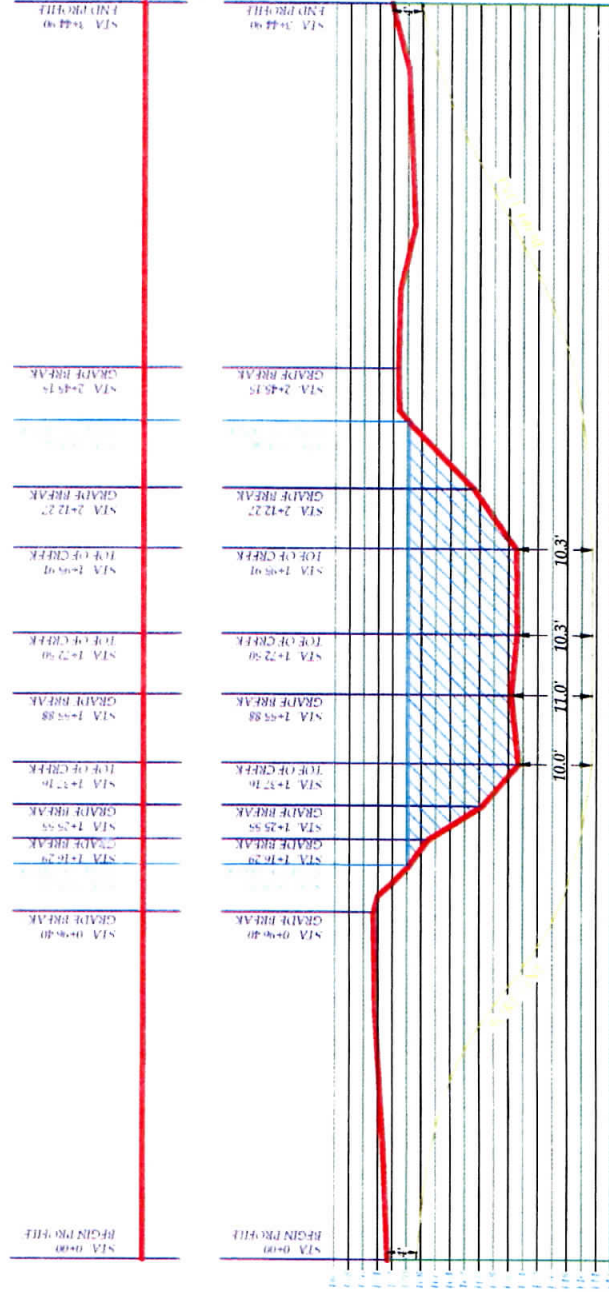
DRAWN: TJ/KBC

COGO: 15 FINAL\15-781.PRO

FILE NAME: 2015PLATS\15-0781.DWG



HORIZ. 1" = 40' VERT. 1" = 20'



VICINITY MAP



LEGEND

- PROPOSED BORE LINE
- SURFACE/CENTERLINE PIPELINE

WESTERN EDGE OF CREEK	
LAT. 32.84987547° NAD 27	X 128056.063 NAD 27
LONG. -93.35942486° NAD 27	Y 79642.781 NAD 27
EASTERN EDGE OF CREEK	
LAT. 32.84944465° NAD 27	X 123074.308 NAD 27
LONG. -93.35860418° NAD 27	Y 79651.652 NAD 27

NOTE: PROFILE LOCATION IS APPROXIMATELY 0.4 MILES NORTH EAST OF THE INTERSECTION OF 1027 HIGHWAY 160 AND COT ROAD



Photograph: 1

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This is the proposed entrance point of the horizontal directional drill. This point is within an existing pipeline right-of-way on the west side of Dorcheat Bayou



Photograph: 2

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This is the soil profile at the entrance point of the horizontal directional drill. This point is 109.09 feet from the west side of the water edge of the bayou.



Photograph: 3

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This view is from the west bank looking down stream.



Photograph: 4

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This view is from the west bank looking upstream.



Photograph: 5

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This view is from the east bank looking down stream.



Photograph: 6

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This view is looking upstream from the east bank.



Photograph: 7

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: The soil at the exit point of the HDD is well drained. This point is 114.5 feet from the east edge of the bayou. The soils are classified as Fluventic Dystrochrepts. Wetland criteria is not present.



Photograph: 8

Project: XTO – Scenic Stream Crossing, Sec. 36,
T22N, R10W

Photo Description: This is the exit point of the HDD on the east side of Dorcheat Bayou. This point is within an existing pipeline right-of-way.